## Part 1

## Download, Install, and Configure Robo 3T Mongo DB Client Application

1. Download and install Robo 3T. <https://robomongo.org/download>
2. Start the Robo 3T application.
3. Create a new connection by clicking File 🡪 Connect.
4. Click Create.
5. On the Connection Tab, enter the following parameters:
   1. Type: Direction Connection
   2. Name: CST 324
   3. Address: ds259305.mlab.com
   4. Port #: 59305
6. On the Authentication Tab, enter the following parameters:
   1. Check the Perform Authentication checkbox
   2. Database: oitcst324
   3. User Name: *<your last name>*
   4. Password: oitcst324
7. Click the [Test] button on the lower-right part of the dialog to verify the parameters you entered are correct.
8. Click the [Save] button.

**Perform the Following Mongo Queries using Mongo Query Syntax in Robo 3T. Provide your queries in a document.**

1. Write a mongo query to display how many movies were released in Canada.

db.getCollection('movies').find({country : "Canada"}).count()

1. Write a mongo query to display how many movies had an imdb\_score of greater than 9.

db.getCollection('movies').find({imdb\_score : {$gt : 9}}).count()

1. Write a mongo query to list the movies starring Natalie Portman as actor\_1\_name, actor\_2\_name, or actor\_3\_name.

db.getCollection('movies').find({ $or: [{actor\_1\_name: "Natalie Portman"}, {actor\_2\_name: "Natalie Portman"}, {actor\_3\_name: "Natalie Portman"}]})

1. Write a mongo query to list the movies either starring (actor\_1\_name, actor\_2\_name, actor\_3\_name) or directed by (director\_name) Clint Eastwood.

db.getCollection('movies').find({ $or: [{actor\_1\_name: "Clint Eastwood"}, {actor\_2\_name: "Clint Eastwood"}, {actor\_3\_name: "Clint Eastwood"},{director\_name: "Clint Eastwood"}]})

1. Write a mongo query to list the number of movies in the Drama genre (genres).

db.getCollection('movies').find({ genres: {$regex: ".\*Drama.\*"}}).count()

**Part 2**

**Mongo DB C# Driver / Querying with C# LINQ. Provide only your Program.cs file.**

1. Download the C# Mongo DB Client Movies application from Blackboard.
2. Be sure to change your C# driver code connection string to your specific string:

mongodb://<dbuser>:<dbpassword>@ds259305.mlab.com:59305/oitcst324 where <dbuser> is your last name and dbpassword is oitcst324.

1. Study the code to understand how the Mongo DB C# client connects, BSON documents can be serialized to C# objects, and how to retrieve a list of the movies.
2. Perform the same queries in Part I, except using the C# application and LINQ.